

CLAIMS

1. A method for detecting prognosis of cancer, which comprises at least a step of detecting core-2 β 1,6-*N*-acetylglucosaminyltransferase in a sample collected from a biological organism to examine the relationship between the results of the detection and the prognosis of cancer in the biological organism.

2. The method according to claim 1, wherein the core-2 β 1,6-*N*-acetylglucosaminyltransferase is core-2 β 1,6-*N*-acetylglucosaminyltransferase-I.

3. The method according to claim 1 or 2, wherein the biological organism is a human body.

4. The method according to any one of claims 1 to 3, wherein the sample is a living tissue.

5. The method according to any one of claims 1 to 4, wherein detecting of core-2 β 1,6-acetylglucosaminyltransferase is carried out by using a polypeptide capable of binding to core-2 β 1,6-*N*-acetylglucosaminyltransferase.

6. The method according to claim 5, wherein the polypeptide is an antibody or a polypeptide having its antigen-binding site.

7. The method according to any one of claims 1 to 6, wherein the cancer is one or at least two cancers selected from the group consisting of prostate cancer, testicular tumor and bladder cancer.

8. The method according to any one of claims 1 to 7, wherein the prognosis of cancer is possibility of cancer metastasis or recurrence.

9. The method according to any one of claims 1 to 8, which is carried out before resection of a cancer tissue.

10. The method according to claim 9, wherein the resection is total resection.

11. A kit for detecting prognosis of cancer, which comprises at least the following element (A):

(A) a first polypeptide capable of binding to core-2 β 1,6-*N*-acetylglucosaminyltransferase.

12. The kit according to claim 11, which further comprises at least the following element (B):

(B) a second polypeptide capable of specifically binding to the first polypeptide described in (A), and being labeled or capable of being labeled with a labeling substance.

13. The kit according to claim 11 or 12, wherein the polypeptide is an antibody or a polypeptide having its antigen-binding site.